## **CLAIMS**

What is claimed is:

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(a1)

A method for managing an uncorrectable data error (UE) as the UE passes knough a plurality of devices in a central electronic complex (CEC), the method comprises the steps of: (a) detecting a UE-RE by at least one device in the CEC; providing an attention signal by at least one device to a diagnostic (b) system to indicate the UE-RE condition; and analyzing the UE-RE attention signal by the diagnostic system to (c) produce an error log with a list of failing parts and a record of the log. 2. The method of claim 1 wherein the UE can produce any of the following conditions: a UE-RE condition; an SUE-mask condition; SUE interrupt condition; and a SUE-CS condition. The method of claim 2 wherein the SUE-mask condition does not need to be 3. 1 2 reported. The method of claim 1 wherein the diagnostic system comprises a processor 1 4. 2 runtime diagnostic (PRD)/code.

The method of claim 2 wherein the detecting step (a) comprises the steps of:

detecting a UE-RE condition by a first device; and

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The computer readable medium of claim 9 wherein the UE can produce any of

the following conditions: a UE-RE condition; an SUE-mask condition; SUE interrupt

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- 15. The computer readable medium of claim 14 wherein the PRD code accesses each of the plurality of devices through an interface within the service processor.
  - 16. The computer readable medium of claim 15 wherein the interface comprises a

2 JTAG interface.

17.	$\Lambda$ A service processor for managing an uncorrectable data error (UE) as the UE
passes through	a plurality of devices in a central electronic complex (CEC), the service
processor com	orises:
processor com	prib <b>ey.</b>

an attention handler for detecting a UE-RE by at least one device in the CEC and providing an attention signal by at least one device to indicate the UE-RE condition; and a diagnostic system for receiving the attention signal and for analyzing the UE-RE attention signal to produce an error log with a list of failing parts and a record of the log.

- 18. The service processor of claim 17 wherein the UE can produce any of the following conditions: a UE-RE condition; an SUE-mask condition; SUE interrupt condition, and a SUE-CS condition.
- 19. The service processor of claim 18 wherein the SUE-mask condition does not need to be reported.
- 20. The service processor of claim 17 wherein the diagnostic system comprises a processor runtime diagnostic (PRD) code.
- 21. The service processor of claim 18 wherein the attention handler detects a UE-RE condition by a first device, and detects a special uncorrectable data error checkstop (SUE-CS) condition by at least one other device at a later point in time, wherein the UE-RE condition and the SUE-CS conditions are processed at substantially the same time.

CS condition.

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1	26. The method of claim 25/
2	reported.
1	27. The method of claim 26 v
1	28. The method of claim 27 v
<b>(1)</b>	
	29. A computer readable med
1.2	uncorrectable data error (UE) as the UE p
	electronic complex (CEC), the program is
4	(a) detecting a UE-RE condit
15	detecting step (a) comprises the steps of:
6	and (a2) detecting a special uncorrectable

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- 26. The method of claim 25/wherein the SUE-mask condition does not need to be red.
- 27. The method of claim 26 wherein the PRD code is within a service processor.
- 28. The method of claim 27 wherein the interface comprises a JTAG interface.
- 29. A computer readable medium containing program instructions for managing an uncorrectable data error (UE) as the UE passes through a plurality of devices in a central electronic complex (CEC), the program instructions for:
- detecting a UE-RE condition by at least one device in the CEC wherein the detecting step (a) comprises the steps of: (a1) detecting a UE-RE condition by a first device; and (a2) detecting a special uncorrectable data error (SUE) condition by the at least one other device at a later point in time, wherein the detection of the UE-RE condition by the first device produces a UE-RE condition and the detection of the SUE condition by the at least one other device produces a SUE-CS condition, wherein the UE-RE condition and the SUE-CS conditions are processed at substantially the same time;
- (b) providing an attention signal by at least one device to a processor runtime diagnostic (PRD) code to indicate the UE-RE condition, wherein the PRD accesses each of the plurality of devices through an interface within the service processor; and
- (c) analyzing the UE-RE attention signal by the diagnostic system to produce an error log with a list of failing parts and a record of the log.

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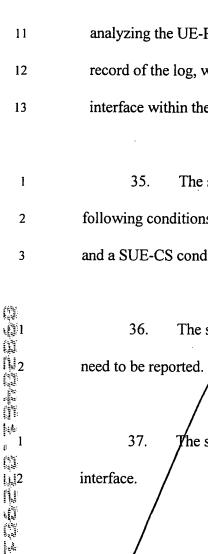
1	30. The computer readable medium of claim 29 wherein the UE can produce any of
2	the following conditions: a UE-RE condition; an SUE-mask condition; SUE interrupt
3	condition; and a SUE-CS condition.
1	31. The computer readable medium of claim 30 wherein the SUE-mask condition
2	does not need to be reported.
} ]1	32. The computer readable medium of claim 31 wherein the PRD code is within a
22	service processor.
al S	33. The computer readable medium of claim 32 wherein the interface comprises a
<u>.</u> 2	JTAG interface.

34. A service processor for managing an uncorrectable data error (UE) as the UE passes through a plurality of devices in a central electronic complex (CEC), the service

processor comprises:

an attention handler for detecting a UE-RE by at least one device in the CEC and providing an attention signal by at least one device to indicate the UE-RE condition, wherein the attention handler detects a UE-RE condition by a first device, and detects a special uncorrectable data error checkstop (SUE-CS) condition by at least one other device at a later point in time, wherein the UE-RE condition and the SUE-CS conditions are processed at substantially the same time; and

a processor runtime diagnostic (PRD) code for receiving the attention signal and for



analyzing the UE-RE attention signal to produce an error log with a list of failing parts and a record of the log, wherein the PRD accesses each of the plurality of devices through an interface within the service processor.

- 35. The service processor of claim 34 wherein the UE can produce any of the following conditions: a UE-RE condition; an SUE-mask condition; SUE interrupt condition, and a SUE-CS condition.
- 36. The service processor of claim 35 wherein the SUE-mask condition does not need to be reported.
- 37. The service processor of claim 36 wherein the interface comprises a JTAG interface

